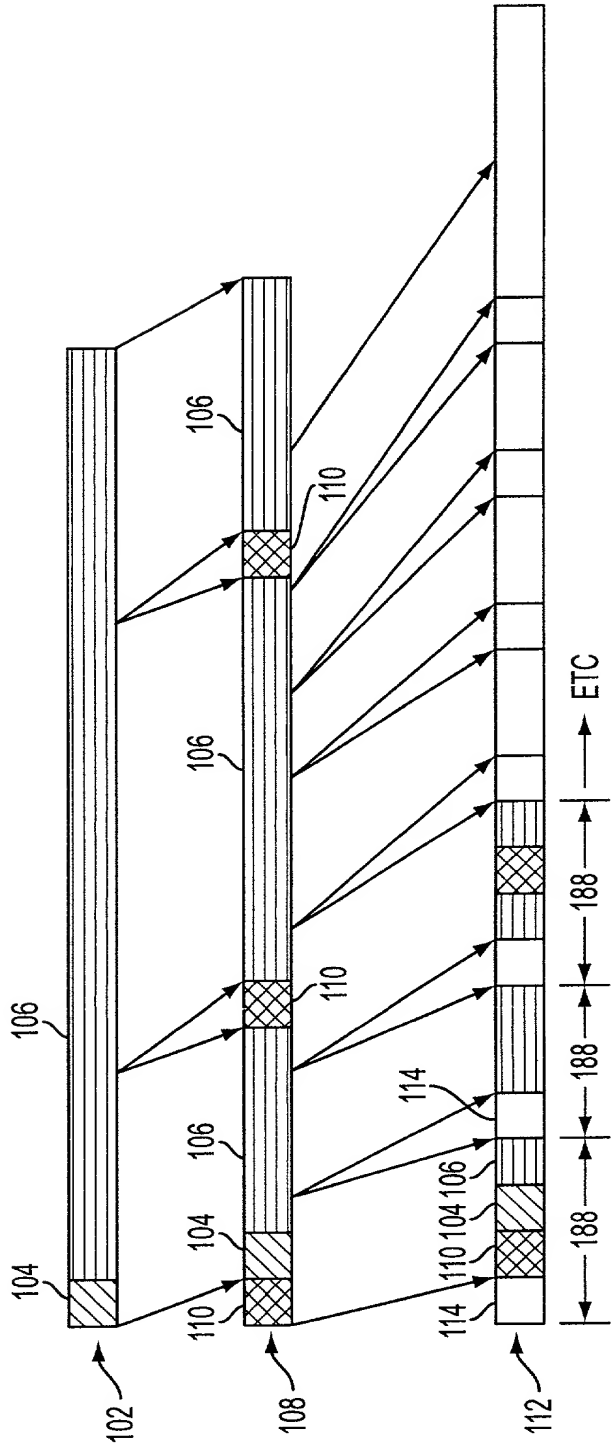

FIG. 1
(PRIOR ART)

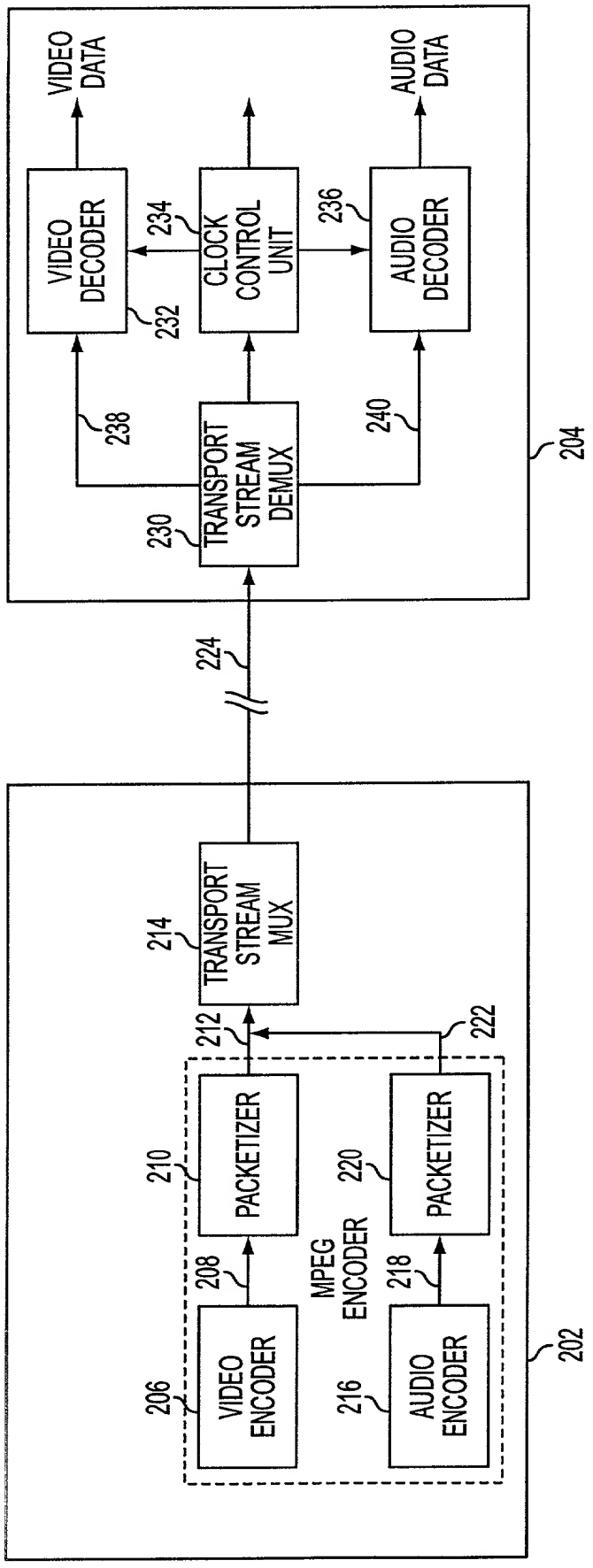

FIG. 2
(PRIOR ART)

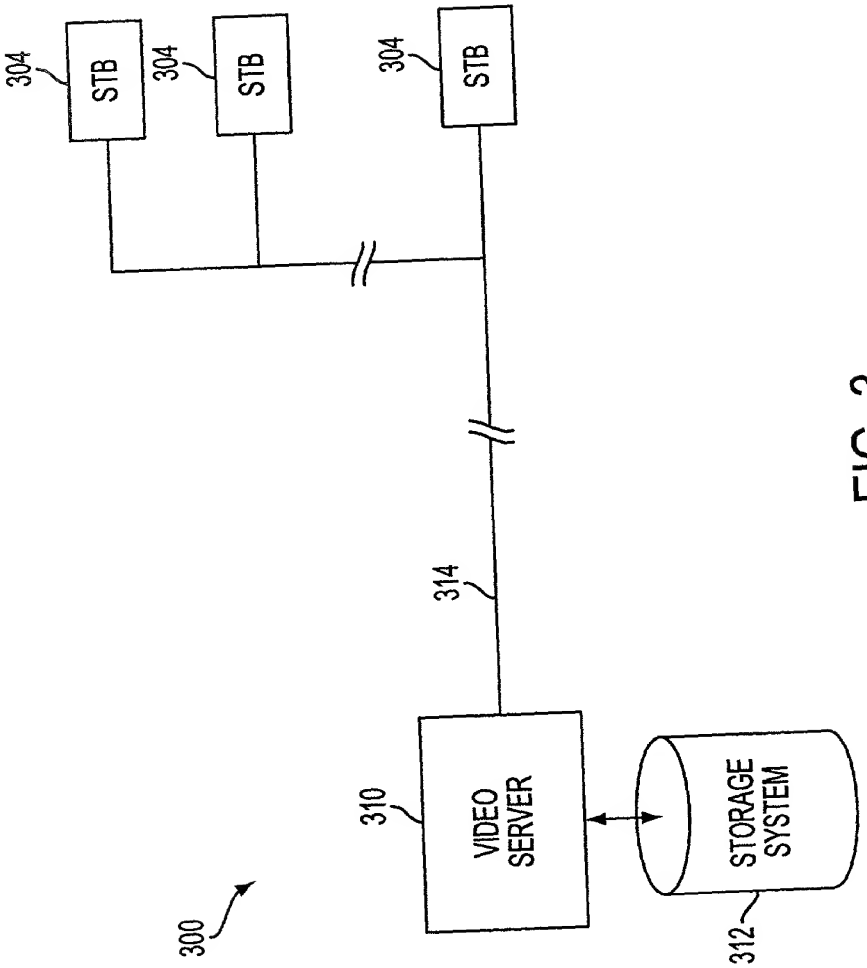

FIG. 3
(PRIOR ART)

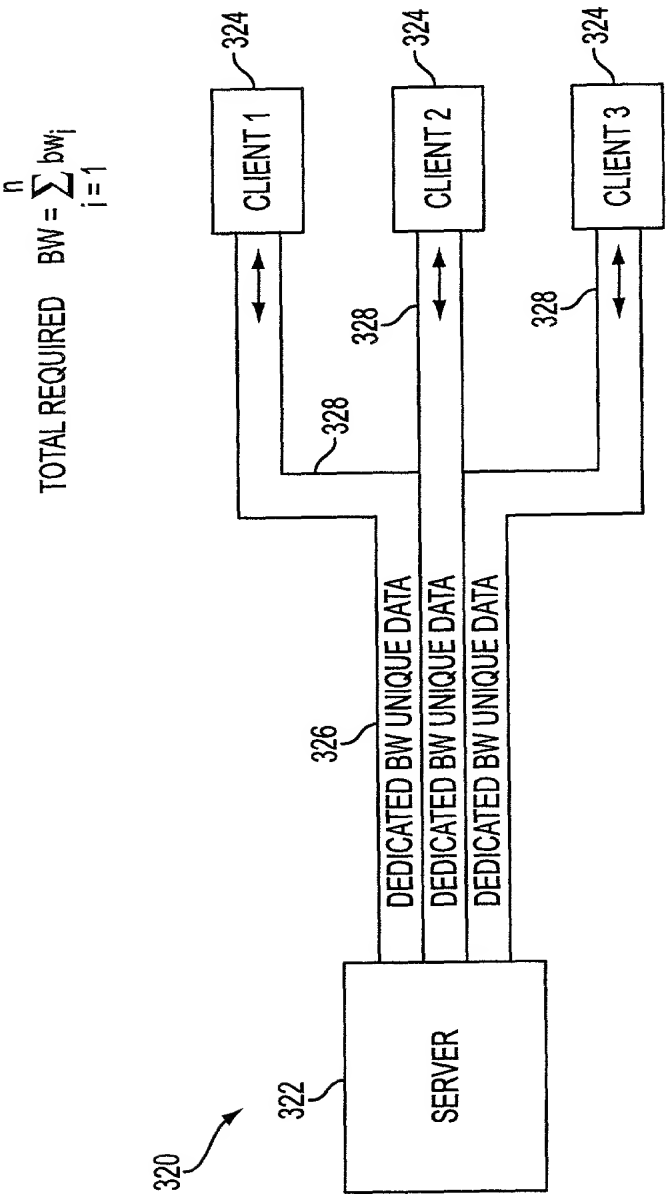

FIG. 4
(PRIOR ART)

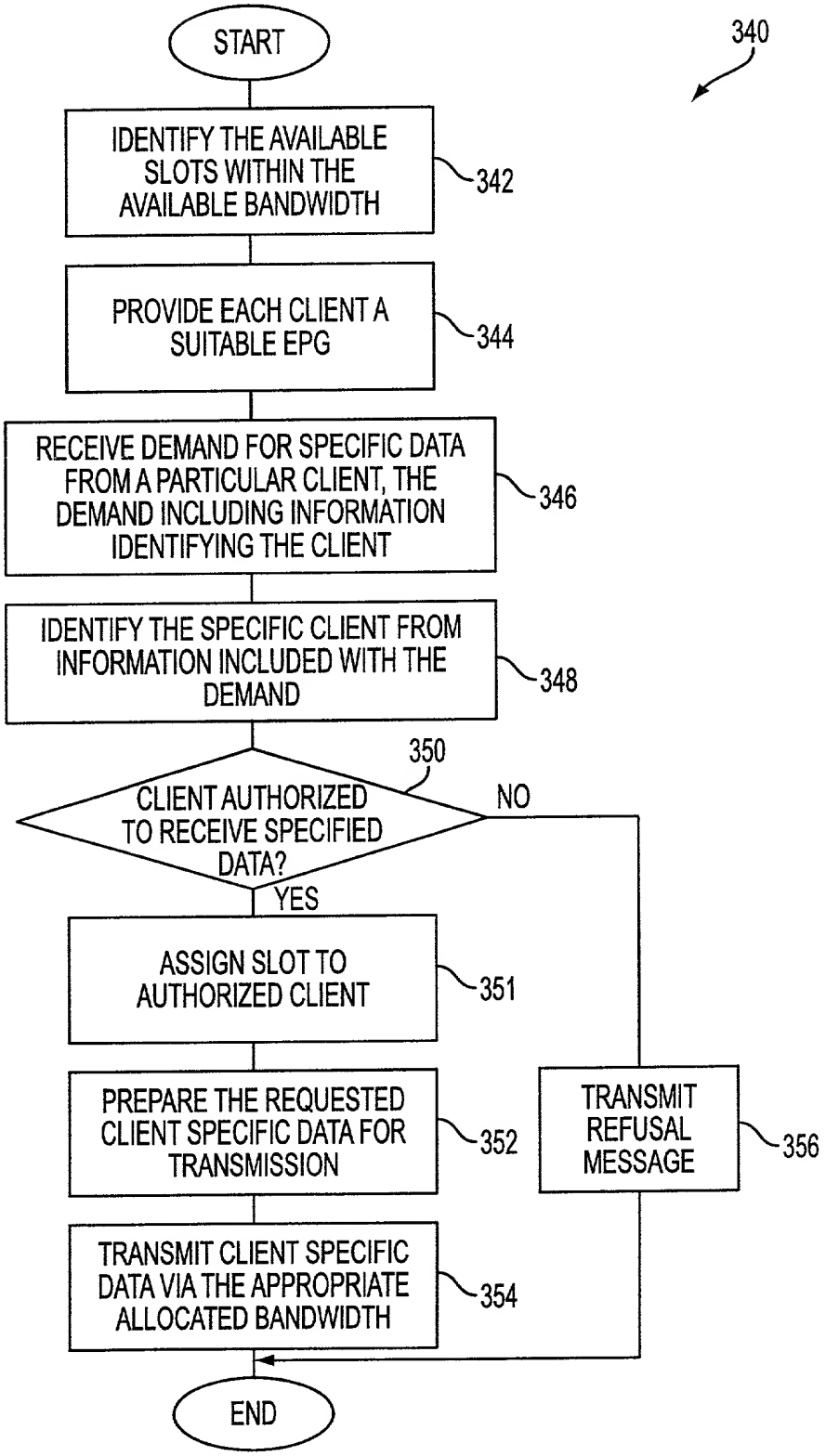

FIG. 5
(PRIOR ART)

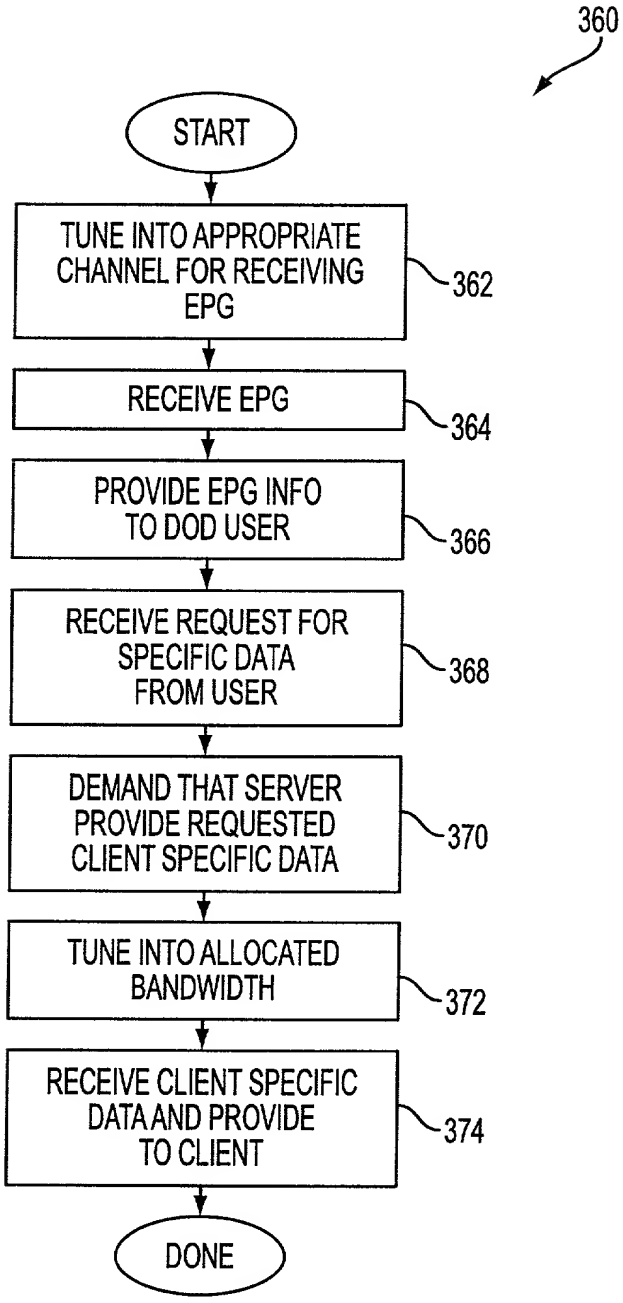

FIG. 6
(PRIOR ART)

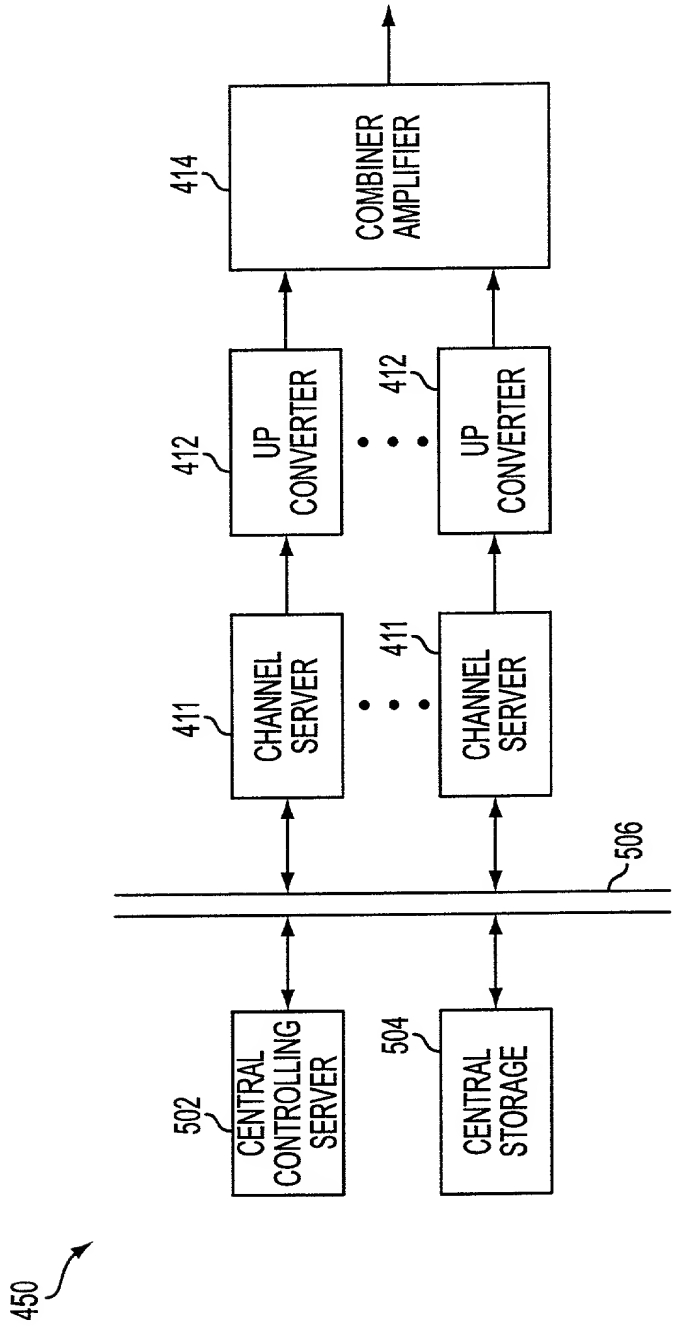
450
502
CENTRAL CONTROLLING SERVER
504
CENTRAL STORAGE
506
411
CHANNEL SERVER
411
CHANNEL SERVER
412
UP CONVERTER
412
UP CONVERTER
414
COMBINER AMPLIFIER

FIG. 7

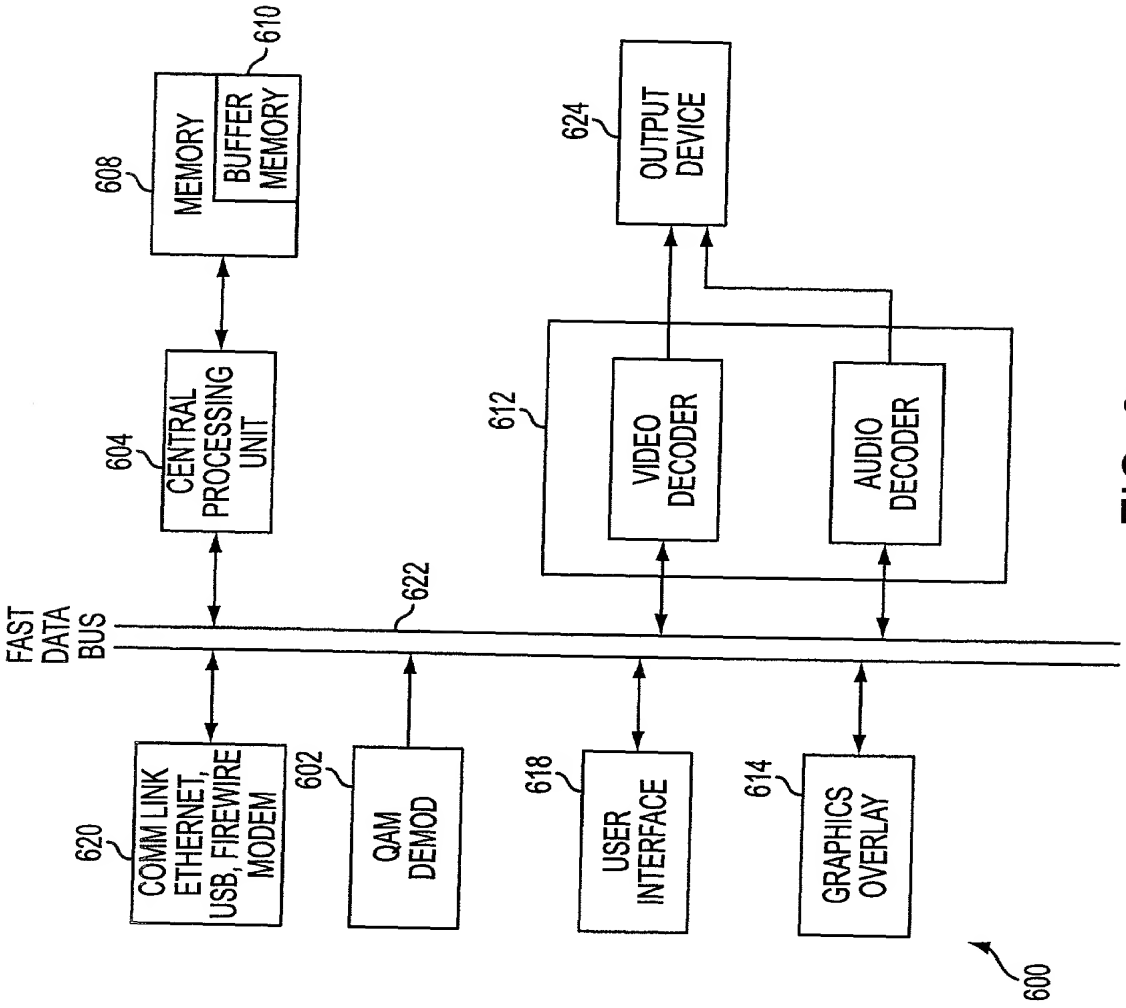
610
608
MEMORY
BUFFER MEMORY
624
OUTPUT DEVICE
604
CENTRAL PROCESSING UNIT
612
VIDEO DECODER
AUDIO DECODER
FAST DATA BUS
622
620
COMM LINK ETHERNET, USB, FIREWIRE MODEM
602
QAM DEMOD
618
USER INTERFACE
614
GRAPHICS OVERLAY
600

FIG. 8

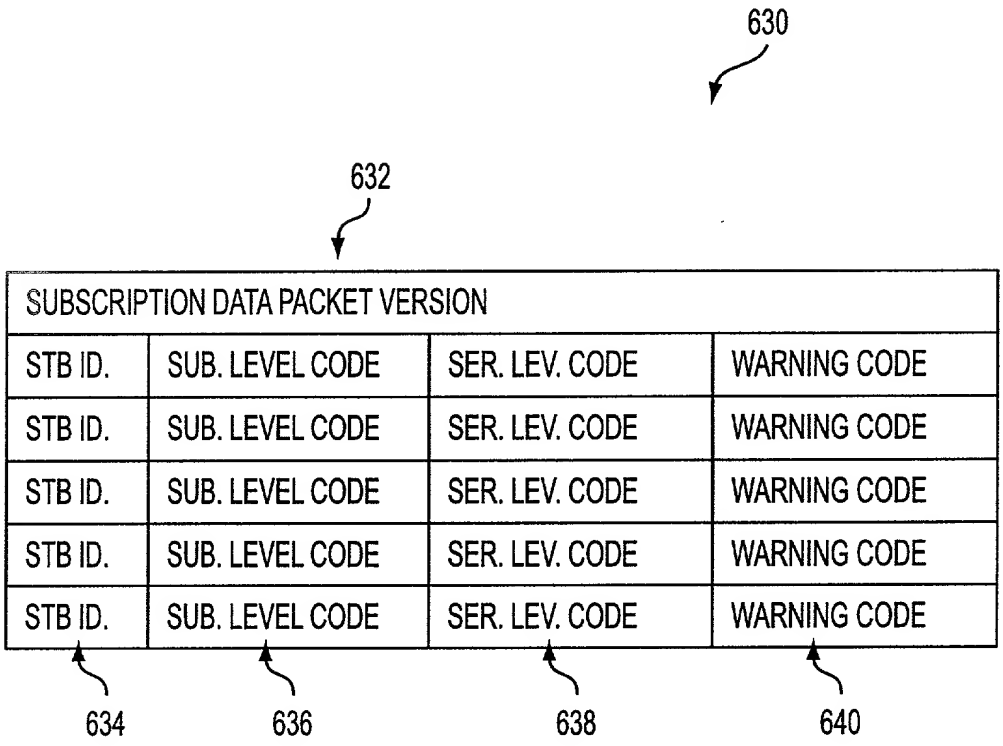
630
632
SUBSCRIPTION DATA PACKET VERSION
STB ID.
SUB. LEVEL CODE
SER. LEV. CODE
WARNING CODE
STB ID.
SUB. LEVEL CODE
SER. LEV. CODE
WARNING CODE
STB ID.
SUB. LEVEL CODE
SER. LEV. CODE
WARNING CODE
STB ID.
SUB. LEVEL CODE
SER. LEV. CODE
WARNING CODE
STB ID.
SUB. LEVEL CODE
SER. LEV. CODE
WARNING CODE
634
636
638
640

FIG. 9

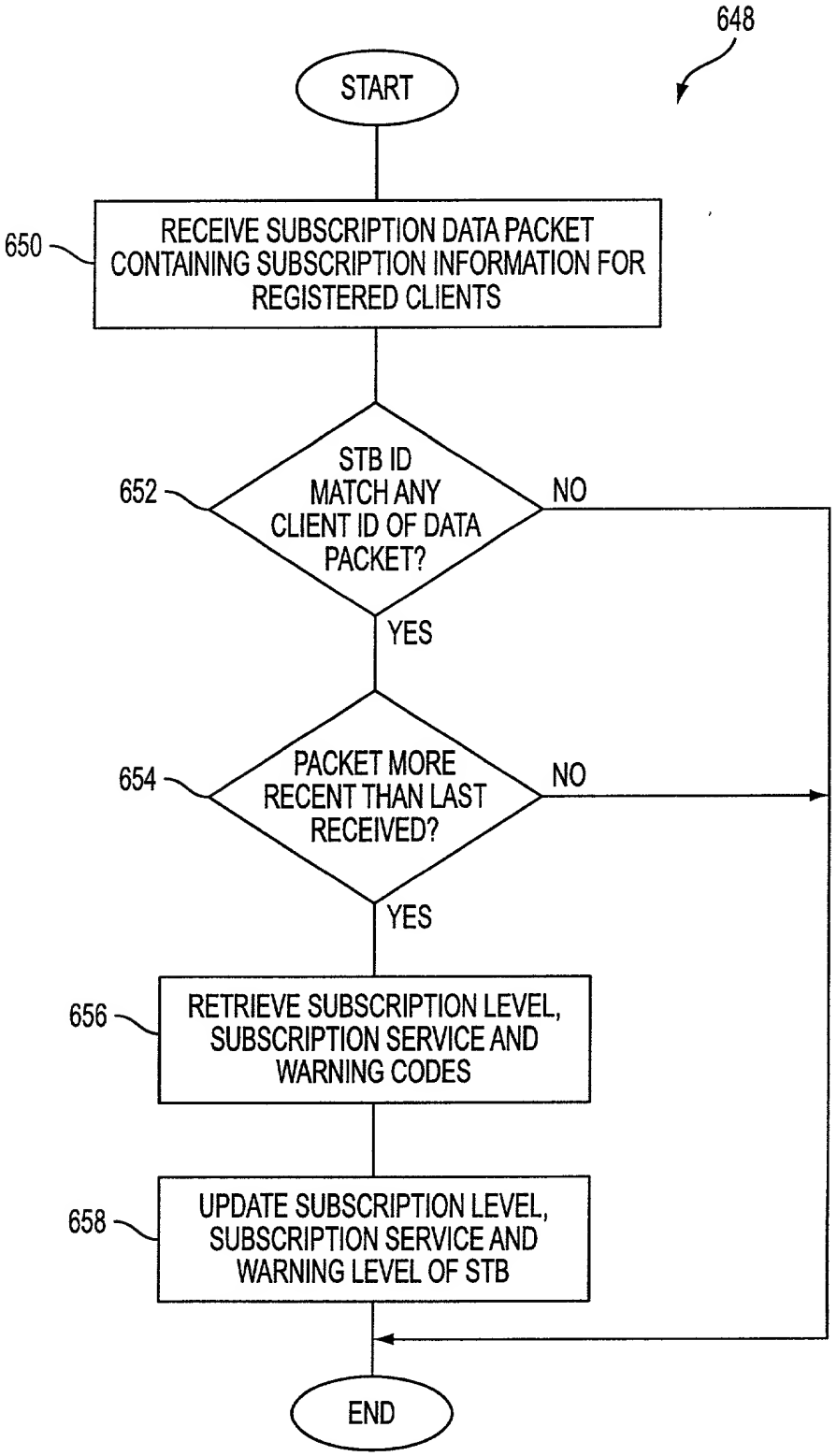
648
START
650
RECEIVE SUBSCRIPTION DATA PACKET CONTAINING SUBSCRIPTION INFORMATION FOR REGISTERED CLIENTS
652
STB ID MATCH ANY CLIENT ID OF DATA PACKET?
NO
YES
654
PACKET MORE RECENT THAN LAST RECEIVED?
NO
YES
656
RETRIEVE SUBSCRIPTION LEVEL, SUBSCRIPTION SERVICE AND WARNING CODES
658
UPDATE SUBSCRIPTION LEVEL, SUBSCRIPTION SERVICE AND WARNING LEVEL OF STB
END

FIG. 10

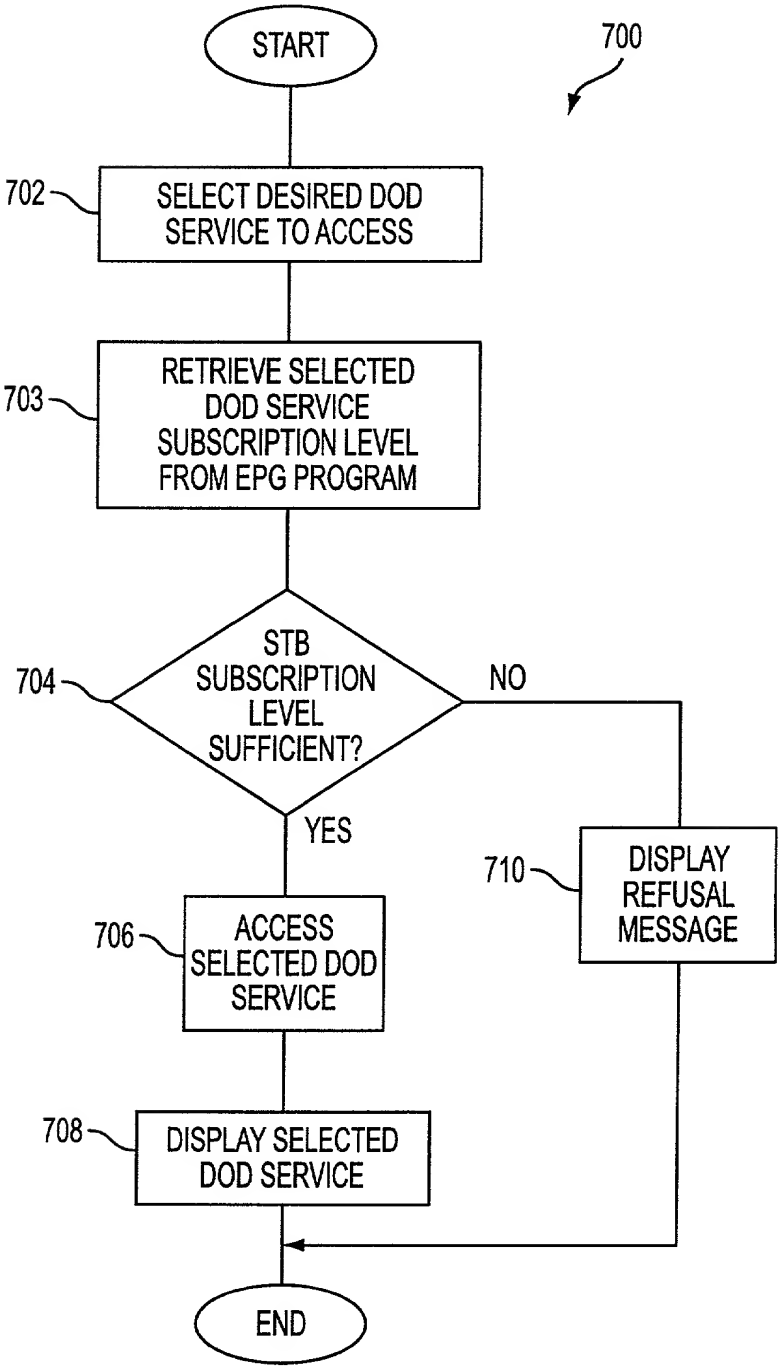
START
700
702
SELECT DESIRED DOD SERVICE TO ACCESS
703
RETRIEVE SELECTED DOD SERVICE SUBSCRIPTION LEVEL FROM EPG PROGRAM
704
STB SUBSCRIPTION LEVEL SUFFICIENT?
NO
YES
710
DISPLAY REFUSAL MESSAGE
706
ACCESS SELECTED DOD SERVICE
708
DISPLAY SELECTED DOD SERVICE
END

FIG. 11

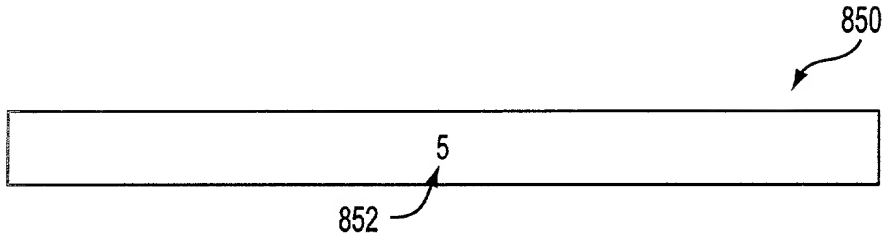

FIG. 12A

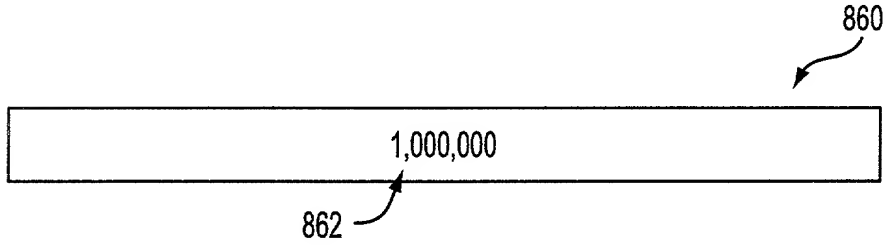

FIG. 12B

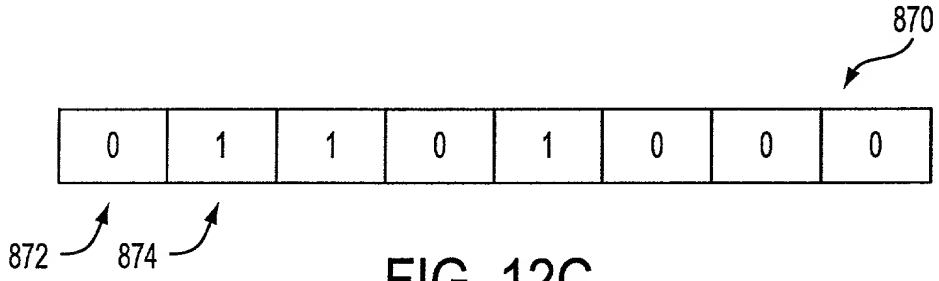

FIG. 12C

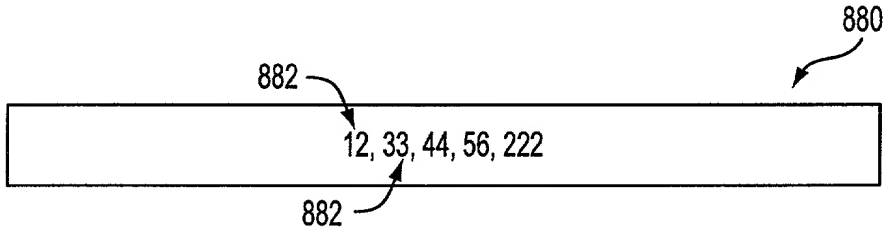

FIG. 13A

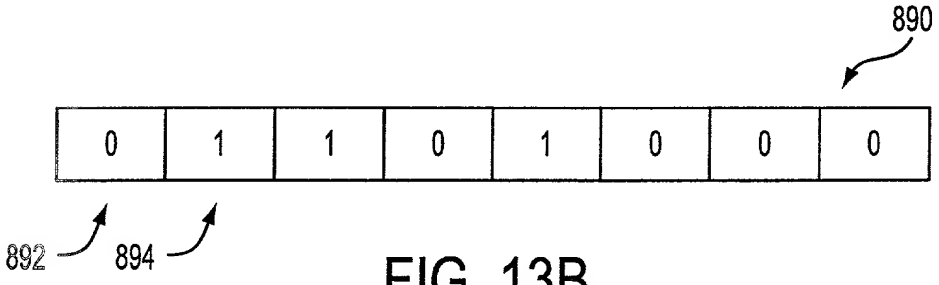

FIG. 13B

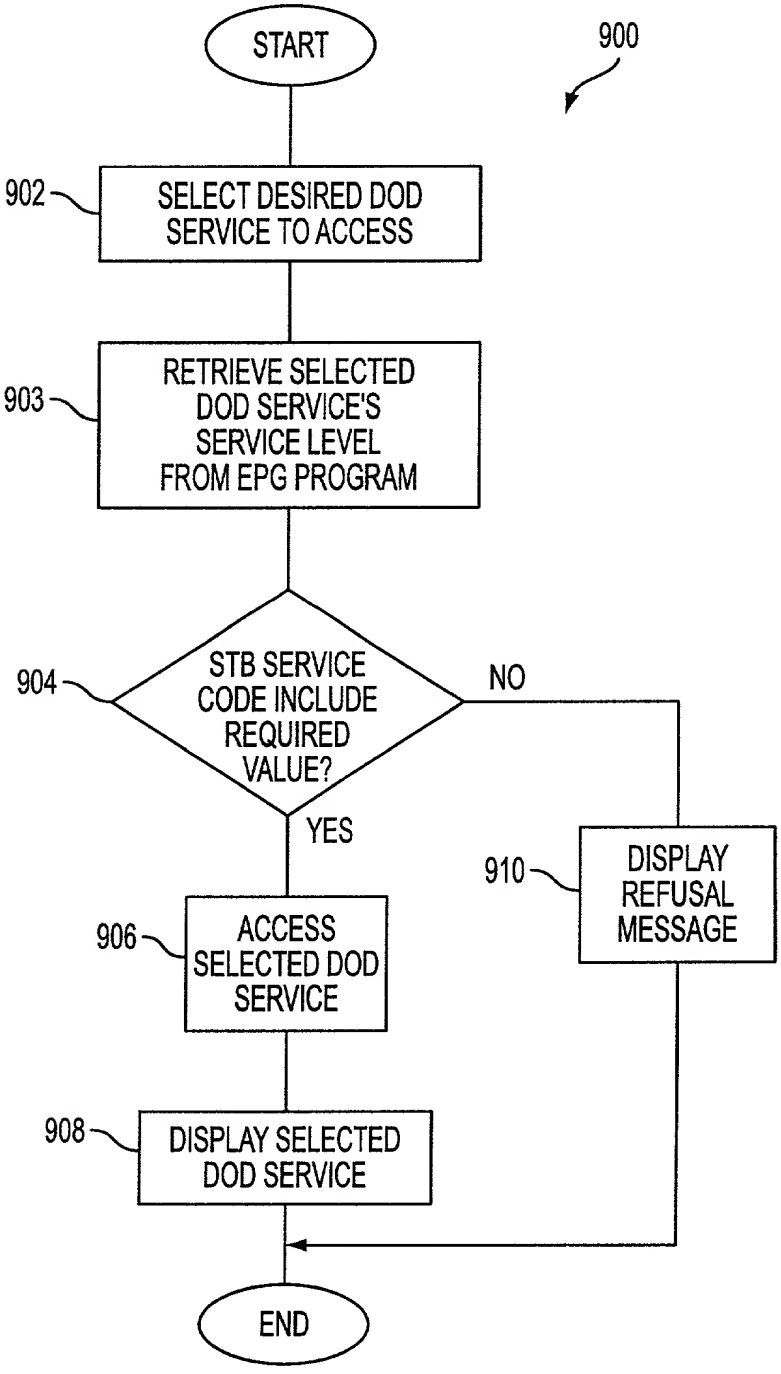
START
900
902
SELECT DESIRED DOD SERVICE TO ACCESS
903
RETRIEVE SELECTED DOD SERVICE'S SERVICE LEVEL FROM EPG PROGRAM
904
STB SERVICE CODE INCLUDE REQUIRED VALUE?
NO
YES
910
DISPLAY REFUSAL MESSAGE
906
ACCESS SELECTED DOD SERVICE
908
DISPLAY SELECTED DOD SERVICE
END

FIG. 14

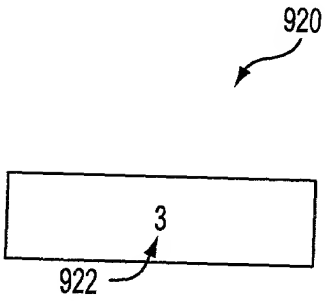

FIG. 15

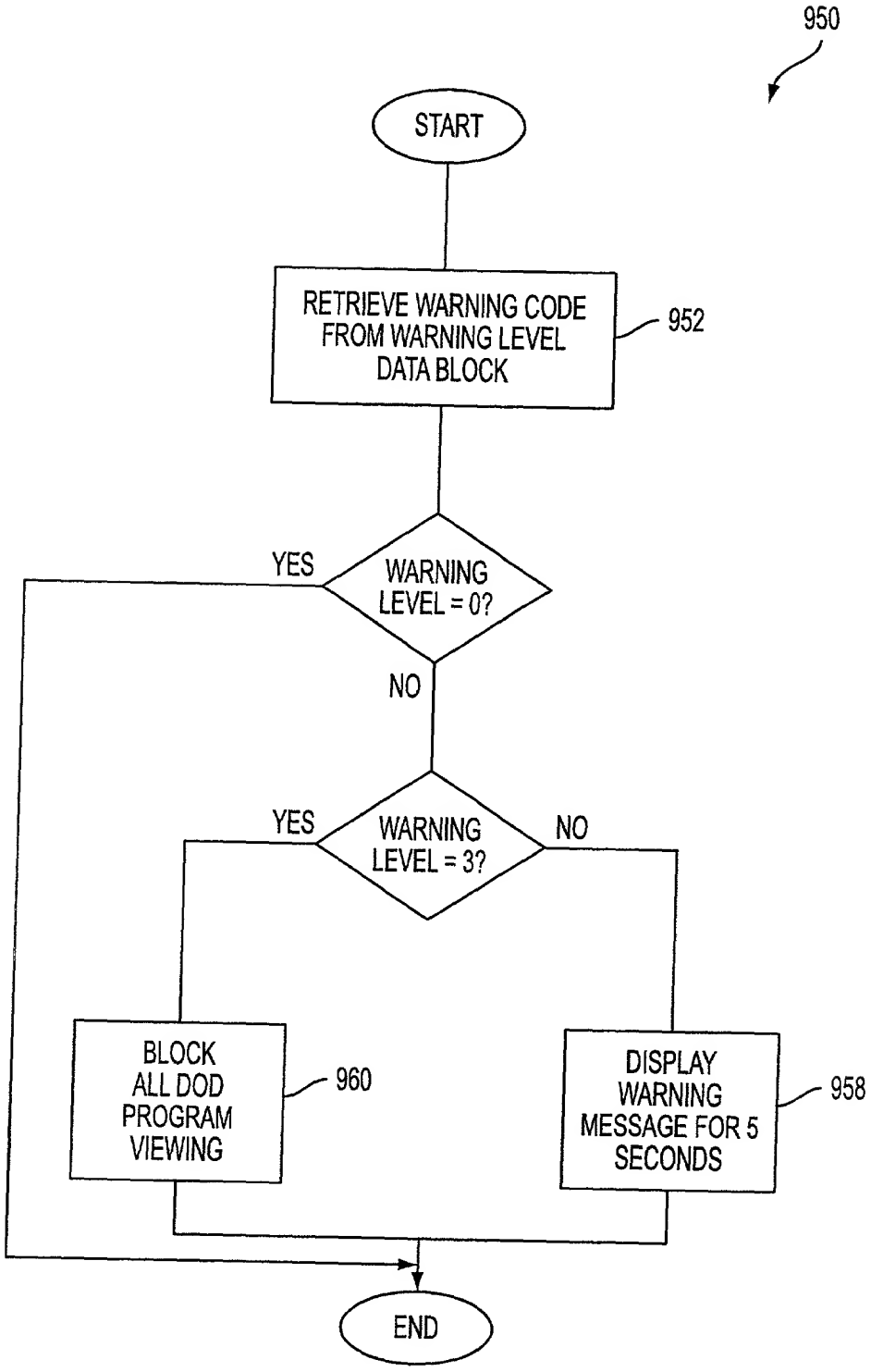
950
START
RETRIEVE WARNING CODE FROM WARNING LEVEL DATA BLOCK
952
YES
WARNING LEVEL = 0?
NO
YES
WARNING LEVEL = 3?
NO
BLOCK ALL DOD PROGRAM VIEWING
960
DISPLAY WARNING MESSAGE FOR 5 SECONDS
958
END

FIG. 16